

Abstract:

A turbocharger comprises a compressor housing for accommodating a compressor wheel drivable by an electric motor and an electric motor for driving a compressor wheel accommodated in a compressor housing, said electric motor being supplied with electric power through at least one motor plug connector. The turbocharger further comprises a turbine housing for accommodating a turbine wheel driven by exhaust gas, a center housing for accommodating a shaft and the electric motor, the shaft serving as a rotor of the electric motor and extending from the turbine wheel through a journal bearing and the electric motor to the compressor wheel. The compressor wheel is driven by the turbine wheel via the shaft and can additionally be driven by the electric motor, wherein the compressor housing further comprises at least one main power plug connector connectable to an electric power source and at least one housing plug connector electrically connected to a respective one of the main power plug connector for supplying said electric motor with electric power. The said housing plug connector is disposed on an axial side of said compressor housing, facing said electric motor, and said motor plug connector is disposed on an axial side of said electric motor, facing said compressor housing.